

Necmi Biyikli

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135
papers

3,420
citations

32
h-index

53
g-index

143
ext. papers

3,811
ext. citations

3.8
avg, IF

5.42
L-index

#	Paper	IF	Citations
135	Role of zinc interstitials and oxygen vacancies of ZnO in photocatalysis: a bottom-up approach to control defect density. <i>Nanoscale</i> , 2014 , 6, 10224-34	7.7	243
134	Polymer-inorganic core-shell nanofibers by electrospinning and atomic layer deposition: flexible nylon-ZnO core-shell nanofiber mats and their photocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6185-94	9.5	131
133	Selective isolation of the electron or hole in photocatalysis: ZnO-TiO ₂ and TiO ₂ -ZnO core-shell structured heterojunction nanofibers via electrospinning and atomic layer deposition. <i>Nanoscale</i> , 2014 , 6, 5735-45	7.7	127
132	Optimization of a-plane GaN growth by MOCVD on r-plane sapphire. <i>Journal of Crystal Growth</i> , 2006 , 290, 166-170	1.6	119
131	Hollow cathode plasma-assisted atomic layer deposition of crystalline AlN, GaN and Al _x Ga _{1-x} N thin films at low temperatures. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2123-2136	7.1	113
130	Facile Synthesis of Three-Dimensional Pt-TiO ₂ Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12257-61	16.4	113
129	RF MEMS Integrated Frequency Reconfigurable Annular Slot Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 626-632	4.9	101
128	Solar-blind AlGaIn-based p-i-n photodiodes with low dark current and high detectivity. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 1718-1720	2.2	98
127	Structural properties of AlN films deposited by plasma-enhanced atomic layer deposition at different growth temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 266-271	1.6	90
126	Capacitance-conductance-current-voltage characteristics of atomic layer deposited Au/Ti/Al ₂ O ₃ /n-GaAs MIS structures. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 400-407	4.3	82
125	Solar-blind AlGaIn-based Schottky photodiodes with low noise and high detectivity. <i>Applied Physics Letters</i> , 2002 , 81, 3272-3274	3.4	82
124	Enhanced photocatalytic activity of homoassembled ZnO nanostructures on electrospun polymeric nanofibers: A combination of atomic layer deposition and hydrothermal growth. <i>Applied Catalysis B: Environmental</i> , 2014 , 156-157, 173-183	21.8	79
123	Self-limiting low-temperature growth of crystalline AlN thin films by plasma-enhanced atomic layer deposition. <i>Thin Solid Films</i> , 2012 , 520, 2750-2755	2.2	76
122	High-performance solar-blind photodetectors based on Al _x Ga _{1-x} N heterostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 742-751	3.8	73
121	High-speed visible-blind GaN-based indium nitride Schottky photodiodes. <i>Applied Physics Letters</i> , 2001 , 79, 2838-2840	3.4	57
120	Atomic layer deposition of GaN at low temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 01A124	2.9	53
119	Transformation of polymer-ZnO core-shell nanofibers into ZnO hollow nanofibers: Intrinsic defect reorganization in ZnO and its influence on the photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 646-653	21.8	52

118	Atomic layer deposition: an enabling technology for the growth of functional nanoscale semiconductors. <i>Semiconductor Science and Technology</i> , 2017 , 32, 093002	1.8	49
117	Surface-decorated ZnO nanoparticles and ZnO nanocoating on electrospun polymeric nanofibers by atomic layer deposition for flexible photocatalytic nanofibrous membranes. <i>RSC Advances</i> , 2013 , 3, 6817	3.7	49
116	Low temperature deposition of Ga ₂ O ₃ thin films using trimethylgallium and oxygen plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 01A110	2.9	48
115	Defect reduction in (112̄0) a-plane GaN by two-stage epitaxial lateral overgrowth. <i>Applied Physics Letters</i> , 2006 , 89, 262105	3.4	48
114	InGaAs-based high-performance p-i-n photodiodes. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 366-368	2.2	48
113	All-Silicon Ultra-Broadband Infrared Light Absorbers. <i>Scientific Reports</i> , 2016 , 6, 38589	4.9	45
112	High-speed solar-blind photodetectors with indium-tin-oxide Schottky contacts. <i>Applied Physics Letters</i> , 2003 , 82, 2344-2346	3.4	44
111	The influence of N ₂ /H ₂ and ammonia N source materials on optical and structural properties of AlN films grown by plasma enhanced atomic layer deposition. <i>Journal of Crystal Growth</i> , 2011 , 335, 51-57	1.6	42
110	High-speed InSb photodetectors on GaAs for mid-IR applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 766-770	3.8	42
109	Electrical characteristics of Ga ₂ O ₃ thin films grown by PEALD. <i>Journal of Alloys and Compounds</i> , 2014 , 593, 190-195	5.7	40
108	Water-soluble non-polymeric electrospun cyclodextrin nanofiber template for the synthesis of metal oxide tubes by atomic layer deposition. <i>RSC Advances</i> , 2014 , 4, 61698-61705	3.7	37
107	Perovskite/perovskite planar tandem solar cells: A comprehensive guideline for reaching energy conversion efficiency beyond 30%. <i>Nano Energy</i> , 2021 , 79, 105400	17.1	37
106	AlGaIn-based high-performance metal-semiconductor-metal photodetectors. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007 , 5, 53-62	2.6	34
105	Size-controlled conformal nanofabrication of biotemplated three-dimensional TiO ₂ and ZnO nanonetworks. <i>Scientific Reports</i> , 2013 , 3, 2306	4.9	33
104	InSb high-speed photodetectors grown on GaAs substrate. <i>Journal of Applied Physics</i> , 2003 , 94, 5414	2.5	33
103	A Near-Infrared Range Photodetector Based on Indium Nitride Nanocrystals Obtained Through Laser Ablation. <i>IEEE Electron Device Letters</i> , 2014 , 35, 936-938	4.4	32
102	High-speed >90% quantum-efficiency p-i-n photodiodes with a resonance wavelength adjustable in the 795-835 nm range. <i>Applied Physics Letters</i> , 1999 , 74, 1072-1074	3.4	32
101	Facile Synthesis of Three-Dimensional Pt-TiO ₂ Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia Borane. <i>Angewandte Chemie</i> , 2016 , 128, 12445-12449	3.6	32

100	Influence of coumarin as an additive on CuO nanostructures prepared by successive ionic layer adsorption and reaction (SILAR) method. <i>Journal of Alloys and Compounds</i> , 2013 , 566, 78-82	5.7	30
99	High bandwidth-efficiency solar-blind AlGaIn Schottky photodiodes with low dark current. <i>Solid-State Electronics</i> , 2005 , 49, 117-122	1.7	30
98	Effect of postdeposition annealing on the electrical properties of AlGaIn thin films grown on p-Si by plasma-enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 041504	2.9	29
97	Optical properties of AlN thin films grown by plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 021506	2.9	29
96	Low-Temperature Deposition of Hexagonal Boron Nitride via Sequential Injection of Triethylboron and N ₂ /H ₂ Plasma. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 4052-4059	3.8	28
95	Area-Selective Atomic Layer Deposition Using an Inductively Coupled Plasma Polymerized Fluorocarbon Layer: A Case Study for Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26393-26401	2.8	27
94	Low-temperature self-limiting atomic layer deposition of wurtzite InN on Si(100). <i>AIP Advances</i> , 2016 , 6, 045203	1.5	26
93	Nanoscale selective area atomic layer deposition of TiO ₂ using e-beam patterned polymers. <i>RSC Advances</i> , 2016 , 6, 106109-106119	3.7	24
92	Effect of coumarin concentration on the physical properties of CdO nanostructures. <i>Ceramics International</i> , 2014 , 40, 5237-5243	5.1	23
91	Fabrication of flexible polymer/GaN core-shell nanofibers by the combination of electrospinning and hollow cathode plasma-assisted atomic layer deposition. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5199-5206	7.1	22
90	CO ₂ laser polishing of microfluidic channels fabricated by femtosecond laser assisted carving. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 115011	2	22
89	Template-Based Synthesis of Aluminum Nitride Hollow Nanofibers Via Plasma-Enhanced Atomic Layer Deposition. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 916-922	3.8	22
88	Surface Decoration of Pt Nanoparticles via ALD with TiO ₂ Protective Layer on Polymeric Nanofibers as Flexible and Reusable Heterogeneous Nanocatalysts. <i>Scientific Reports</i> , 2017 , 7, 13401	4.9	21
87	Au/TiO ₂ nanorod-based Schottky-type UV photodetectors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 442-444	2.5	21
86	ITO-Schottky photodiodes for high-performance detection in the UV-IR spectrum. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 759-765	3.8	21
85	Substrate impact on the low-temperature growth of GaN thin films by plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 041511	2.9	21
84	Fabrication of hafnia hollow nanofibers by atomic layer deposition using electrospun nanofiber templates. <i>Journal of Alloys and Compounds</i> , 2013 , 559, 146-151	5.7	20
83	Pd nanocube decoration onto flexible nanofibrous mats of core-shell polymer/ZnO nanofibers for visible light photocatalysis. <i>New Journal of Chemistry</i> , 2017 , 41, 4145-4156	3.6	19

82	Current transport mechanisms in plasma-enhanced atomic layer deposited AlN thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 155101	2.5	19
81	High-speed GaAs-based resonant-cavity-enhanced 1.3 μm photodetector. <i>Applied Physics Letters</i> , 2000 , 77, 3890-3892	3.4	19
80	Low temperature atomic layer deposited ZnO photo thin film transistors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A105	2.9	18
79	Fabrication of AlN/BN bishell hollow nanofibers by electrospinning and atomic layer deposition. <i>APL Materials</i> , 2014 , 2, 096109	5.7	18
78	Comparison of trimethylgallium and triethylgallium as Ga source materials for the growth of ultrathin GaN films on Si (100) substrates via hollow-cathode plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A137	2.9	18
77	High-speed characterization of solar-blind Al _x Ga _{1-x} N p-i-n photodiodes. <i>Semiconductor Science and Technology</i> , 2004 , 19, 1259-1262	1.8	17
76	Perfectly absorbing ultra thin interference coatings for hydrogen sensing. <i>Optics Letters</i> , 2016 , 41, 1724-7		17
75	Low-temperature grown wurtzite In _x Ga _{1-x} N thin films via hollow cathode plasma-assisted atomic layer deposition. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9620-9630	7.1	16
74	Low temperature thin film transistors with hollow cathode plasma-assisted atomic layer deposition based GaN channels. <i>Applied Physics Letters</i> , 2014 , 104, 243505	3.4	16
73	Effect of annealing on electrical properties of radio-frequency-sputtered ZnO films. <i>Journal of Electronic Materials</i> , 2006 , 35, 520-524	1.9	16
72	Quantitative mobility spectrum analysis of AlGaIn/GaN heterostructures using variable-field hall measurements. <i>Applied Physics Letters</i> , 2006 , 88, 142106	3.4	16
71	Electrical characteristics of Au/Ti/n-GaAs contacts over a wide measurement temperature range. <i>Physica Scripta</i> , 2014 , 89, 095804	2.6	15
70	Amorphous to Tetragonal Zirconia Nanostructures and Evolution of Valence and Core Regions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23268-23273	3.8	14
69	Effect of O ₂ /Ar flow ratio and post-deposition annealing on the structural, optical and electrical characteristics of SrTiO ₃ thin films deposited by RF sputtering at room temperature. <i>Thin Solid Films</i> , 2015 , 590, 193-199	2.2	13
68	Monodispersed, Highly Interactive Facet (111)-Oriented Pd Nanograins by ALD onto Free-Standing and Flexible Electrospun Polymeric Nanofibrous Webs for Catalytic Application. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700640	4.6	12
67	Enhanced photoresponse of conformal TiO ₂ /Ag nanorod array-based Schottky photodiodes fabricated via successive glancing angle and atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A110	2.9	12
66	Atomic layer deposition of metal oxides for efficient perovskite single-junction and perovskite/silicon tandem solar cells.. <i>RSC Advances</i> , 2020 , 10, 14856-14866	3.7	12
65	A study of the morphology of GaN seed layers on in situ deposited SixNy and its effect on properties of overgrown GaN epilayers. <i>Journal of Crystal Growth</i> , 2006 , 291, 301-308	1.6	12

64	Substrate temperature influence on the properties of GaN thin films grown by hollow-cathode plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A125	2.9	12
63	Real-time in situ ellipsometric monitoring of aluminum nitride film growth via hollow-cathode plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 020927	2.9	11
62	Low-temperature hollow cathode plasma-assisted atomic layer deposition of crystalline III-nitride thin films and nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 394-398		11
61	Three-Dimensional Microfabricated Broadband Patch Antenna for WiGig Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 828-831	3.8	11
60	Measurement of linear and cubic spin-orbit coupling parameters in AlGa _N /AlN/GaN heterostructures with a polarization-induced two-dimensional electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1586-1589	3	11
59	Protein-releasing conductive anodized alumina membranes for nerve-interface materials. <i>Materials Science and Engineering C</i> , 2016 , 67, 590-598	8.3	10
58	Fabrication and characterisation of solar-blind Al _{0.6} Ga _{0.4} N MSM photodetectors. <i>Electronics Letters</i> , 2005 , 41, 274	1.1	10
57	Postdeposition annealing on RF-sputtered SrTiO ₃ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 021505	2.9	9
56	Optical characteristics of nanocrystalline Al _x Ga _{1-x} N thin films deposited by hollow cathode plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 031508	2.9	9
55	Electronic and optical device applications of hollow cathode plasma assisted atomic layer deposition based GaN thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A143	2.9	9
54	Low-voltage small-size double-arm MEMS actuator. <i>Electronics Letters</i> , 2009 , 45, 354	1.1	9
53	Illumination and annealing characteristics of two-dimensional electron gas systems in metal-organic vapor-phase epitaxy grown Al _x Ga _{1-x} N/AlN/GaN heterostructures. <i>Journal of Applied Physics</i> , 2006 , 100, 103702	2.5	9
52	Surface ionic states and structure of titanate nanotubes. <i>RSC Advances</i> , 2015 , 5, 82977-82982	3.7	8
51	(Invited) Plasma-Enhanced Atomic Layer Deposition of III-Nitride Thin Films. <i>ECS Transactions</i> , 2013 , 58, 289-297	1	8
50	Nanoelectromechanical switches for reconfigurable antennas. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 64-69	1.2	8
49	Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6186-6209	5.6	7
48	Understanding the role of rf-power on AlN film properties in hollow-cathode plasma-assisted atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 022405	2.9	7
47	Electrical conduction and dielectric relaxation properties of AlN thin films grown by hollow-cathode plasma-assisted atomic layer deposition. <i>Semiconductor Science and Technology</i> , 2016 , 31, 075003	1.8	7

46	Magnetotransport properties of Al _x Ga _{1-x} N/AlN/GaN heterostructures grown on epitaxial lateral overgrown GaN templates. <i>Journal of Applied Physics</i> , 2007 , 101, 113710	2.5	7
45	High-performance solar-blind AlGaInN photodetectors 2005 ,		7
44	Elucidating the role of nitrogen plasma composition in the low-temperature self-limiting growth of indium nitride thin films.. <i>RSC Advances</i> , 2020 , 10, 27357-27368	3.7	7
43	Low-temperature sequential pulsed chemical vapor deposition of ternary B _x Ga _{1-x} N and B _x In _{1-x} N thin film alloys. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A123	2.9	7
42	Self-assembled peptide nanofiber templated ALD growth of TiO ₂ and ZnO semiconductor nanonetworks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 3238-3244	1.6	7
41	Properties of Hafnium Oxide Received by Ultra Violet Stimulated Plasma Anodization. <i>IEEE Transactions on Device and Materials Reliability</i> , 2017 , 17, 667-671	1.6	6
40	Metal-semiconductor-metal ultraviolet photodetectors based on gallium nitride grown by atomic layer deposition at low temperatures. <i>Optical Engineering</i> , 2014 , 53, 107106	1.1	6
39	High-Performance Solar-Blind AlGaInN Schottky Photodiodes. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2003 , 8, 1		6
38	High-speed 1.55 μ m operation of low-temperature-grown GaAs-based resonant-cavity-enhanced p-i-n photodiodes. <i>Applied Physics Letters</i> , 2004 , 84, 4185-4187	3.4	6
37	Long-range ordered vertical III-nitride nano-cylinder arrays via plasma-assisted atomic layer deposition. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6471-6482	7.1	6
36	Effect of Film Thickness on the Electrical Properties of AlN Films Prepared by Plasma-Enhanced Atomic Layer Deposition. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3627-3632	2.9	5
35	Low-Temperature As-Grown Crystalline β -Ga ₂ O ₃ Films via Plasma-Enhanced Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8538-8551	9.5	5
34	Using nanogap in label-free impedance based electrical biosensors to overcome electrical double layer effect. <i>Microsystem Technologies</i> , 2017 , 23, 889-897	1.7	4
33	Reusable and Flexible Heterogeneous Catalyst for Reduction of TNT by Pd Nanocube Decorated ZnO Nanolayers onto Electrospun Polymeric Nanofibers. <i>ChemistrySelect</i> , 2017 , 2, 8790-8798	1.8	4
32	Practical multi-featured perfect absorber utilizing high conductivity silicon. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 035002	1.7	4
31	Energy relaxation probed by weak antilocalization measurements in GaN heterostructures. <i>Journal of Applied Physics</i> , 2009 , 106, 103702	2.5	4
30	Utilizing embedded ultra-small Pt nanoparticles as charge trapping layer in flashristor memory cells. <i>Applied Surface Science</i> , 2019 , 467-468, 715-722	6.7	4
29	Effect of reactor pressure on optical and electrical properties of InN films grown by high-pressure chemical vapor deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 423-429		3

28	A performance-enhanced planar Schottky diode for Terahertz applications: an electromagnetic modeling approach. <i>International Journal of Microwave and Wireless Technologies</i> , 2017 , 9, 1905-1913	0.8	3
27	Graphene as plasma-compatible blocking layer material for area-selective atomic layer deposition: A feasibility study for III-nitrides. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 01A107	2.9	3
26	Hollow-cathode plasma-assisted atomic layer deposition: A novel route for low-temperature synthesis of crystalline III-nitride thin films and nanostructures 2015 ,		2
25	Investigation of native oxide removing from HCPA ALD grown GaN thin films surface utilizing HF solutions 2016 ,		2
24	Low-Temperature Self-Limiting Growth of III-Nitride Thin Films by Plasma-Enhanced Atomic Layer Deposition. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 1008-1014	0.8	2
23	Comparative Study on in-situ Ellipsometric Monitoring of III-Nitride Film Growth via Plasma-Enhanced Atomic Layer Deposition. <i>International Journal of High Speed Electronics and Systems</i> , 2019 , 28, 1940020	0.5	2
22	Zno nanostructures via hydrothermal synthesis on atomic layer deposited seed-layers 2015 ,		1
21	Effect of substrate temperature and Ga source precursor on growth and material properties of GaN grown by hollow cathode plasma assisted atomic layer deposition 2016 ,		1
20	Boundary element method for optical force calibration in microfluidic dual-beam optical trap 2015 ,		1
19	COMPLEMENTARY SPIRAL RESONATORS FOR ULTRAWIDEBAND SUPPRESSION OF SIMULTANEOUS SWITCHING NOISE IN HIGH-SPEED CIRCUITS. <i>Progress in Electromagnetics Research C</i> , 2014 , 46, 117-124	0.9	1
18	Penta-Band Planar Inverted F-Antenna (PIFA) Integrated by RF-NEMS Switches 2008 ,		1
17	High-Speed Solar-Blind AlGaIn Schottky Photodiodes. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 764, 1		1
16	45 GHz bandwidth-efficiency resonant cavity enhanced ITO-Schottky Photodiodes 2001 ,		1
15	High-Speed Transparent Indium-Tin-Oxide Based Resonant Cavity Schottky Photodiode with Si ₃ N ₄ /SiO ₂ Top Bragg Mirror 2001 ,		1
14	Real-time in situ process monitoring and characterization of GaN films grown on Si (100) by low-temperature hollow-cathode plasma-atomic layer deposition using trimethylgallium and N ₂ /H ₂ plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 022406	2.9	1
13	Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles.. <i>Journal of Chemical Physics</i> , 2022 , 156, 154701	3.9	1
12	In situ monitoring atomic layer doping processes for Al-doped ZnO layers: Competitive nature of surface reactions between metal precursors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 042401	2.9	1
11	ZnO Nanostructures on Electrospun Nanofibers by Atomic Layer Deposition/Hydrothermal Growth and Their Photocatalytic Activity. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1675, 9-14		0

- 10 Area-selective atomic layer deposition of noble metals: Polymerized fluorocarbon layers as effective growth inhibitors. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 022402 2.9 0
- 9 Nanofibrous Catalysts: Monodispersed, Highly Interactive Facet (111)-Oriented Pd Nanograins by ALD onto Free-Standing and Flexible Electrospun Polymeric Nanofibrous Webs for Catalytic Application (Adv. Mater. Interfaces 24/2017). *Advanced Materials Interfaces*, **2017**, 4, 1770126 4.6
- 8 Preparation of Al₂O₃ and AlN Nanotubes by Atomic Layer Deposition. *Materials Research Society Symposia Proceedings*, **2012**, 1408, 133
- 7 Persistent Photoconductivity in High-mobility Al_xGa_{1-x}N/AlN/GaN Heterostructures Grown by Metal-organic Vapor-phase Epitaxy. *Materials Research Society Symposia Proceedings*, **2006**, 955, 1
- 6 High-Performance AlGa_N-Based Visible-Blind Resonant Cavity Enhanced Schottky Photodiodes. *Materials Research Society Symposia Proceedings*, **2003**, 764, 1
- 5 Investigation of AlGa_N buffer layers on sapphire grown by MOVPE **2004**, 5366, 183
- 4 Solar-Blind AlGa_N-based Schottky Photodiodes With High Detectivity and Low Noise. *Materials Research Society Symposia Proceedings*, **2002**, 743, L7.11.1
- 3 High-speed high-efficiency resonant-cavity-enhanced photodiodes **1999**, 3629, 298
- 2 High-Speed Visible-Blind Resonant Cavity Enhanced AlGa_N Schottky Photodiodes. *MRS Internet Journal of Nitride Semiconductor Research*, **2003**, 8, 1
- 1 Comparative Study on in-situ Ellipsometric Monitoring of III-Nitride Film Growth via Plasma-Enhanced Atomic Layer Deposition. *Selected Topics in Electronics and Systems*, **2020**, 77-83 0